


# Creating Change in Schools, through Information, Communication and Technologies.

Suzanne Wright;- Te Pahu School

## ***To discover ...***

- What technologies (software and hardware) are being used in semi-rural schools with the maximum effect?
  - What pedagogical practices are being used and education theories are being followed in relation to ICTs?
  - How do these technologies, pedagogy and theories impact on children's thinking and learning?
- 

## ***The Funding ...***

School budgets range in total from \$12,000.00 - \$40,000.00

- Technical Support costs went up as the amount of technology in school developed.
  - Schools were reliant on 'community grants' and 'fundraising' to support on average 25% of their IT budgets ... in some cases up to 50%
- Schools in ICT PD cluster development listed PD as the major cost in their IT budgets.
  - All school BOTs' funded the teacher laptops in their schools.
- Government Tagged money for ICT plays a minor part in school funding IT
- Taranaki Schools have luxury of TSB Bank ... grants being regularly given.

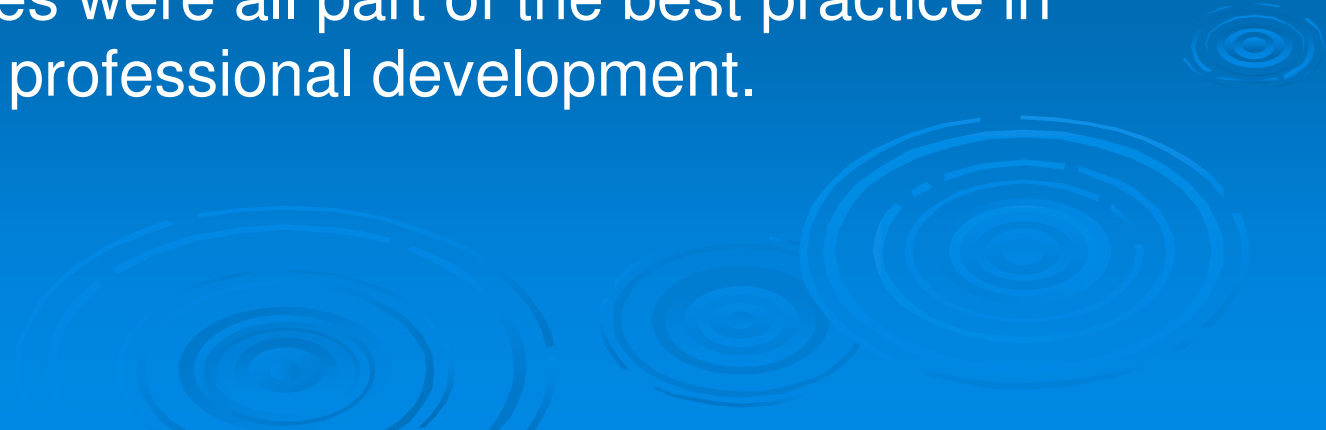
## ***Equipment in Schools***

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li>➤ Computer suites</li><li>➤ Cows [computers on wheels]</li><li>➤ Classroom Pods</li><li>➤ Laptops / PC's</li><li>➤ Digital cameras -video and still</li><li>➤ Data projectors</li><li>➤ DVD players</li><li>➤ Large screen TV's</li><li>➤ Apple computers</li></ul> | <ul style="list-style-type: none"><li>➤ Interactive white boards</li><li>➤ Mimio boards</li><li>➤ Digital classrooms</li><li>➤ Technology enhanced teaching space</li><li>➤ software</li><li>➤ Digital photo displays</li><li>➤ Tablets</li><li>➤ Wikispaces/websites</li></ul> |
|---|---|

# ***Best Investments***

- teacher laptops, data projectors, digital cameras
  - all common answers
- Professional Development for teachers
  - the most prominent answer from both staff and principals.

Conferences, clusters and internal sharing of experiences were all part of the best practice in professional development.



## ***Looking back with the luxury of hindsight...***

- Items were often purchased with a specific teacher in mind ... when the teacher had left the 'technology' became unused
- Only some staff received PD.
- Staff had PD without having the 'technology' to play with.
- *this links directly back with the 'best investments'*

*What technologies (software and hardware) are being used in semi-rural schools with the maximum effect?*

- You name it; I saw it ... software, cameras, whiteboards, computers ...
- The technology was irrelevant unless...  
the teacher was trained,  
motivated  
and had a tool which was 'always' working.

## ***What pedagogical practices are being used and education theories are being followed?***


- The inquiry process was dominant in schools who were on or who had been on the ICT/Inquiry contract
- Schools without the 'contract' were working on E learning ideas with learner directed tasks ... a lot of independent work guided by the teacher.
- ICTs were used to reinforce the programme in the classroom. Used to celebrate the children's work and share it with their 'learning community'.
- Literacy and mathematics programmes dominated the junior classrooms
- Gathering and sharing information dominated in senior rooms.





# **My ICT Vision for Te Pahu School...**

**for Te Pahu School to be a  
digitally interactive environment**



Te Pahu School - a digitally interactive environment

# Each classroom should have ...

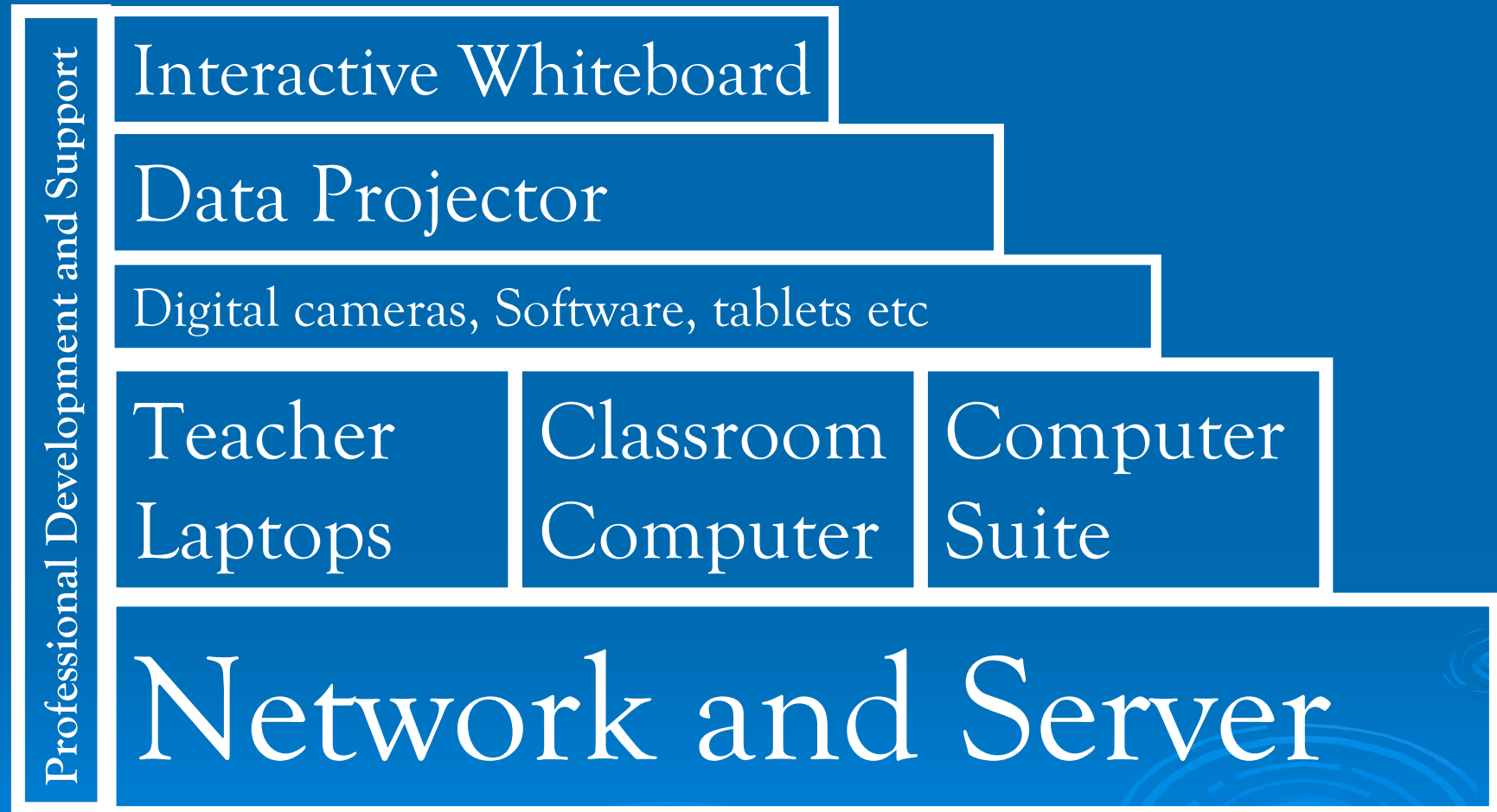
- Teacher laptop and flash drive
- at least 5 classroom computers-  
with internet, printer and server access
- Data projector with screen and whiteboard display  
for modelling/sharing
- A digital camera and memory stick
- Access to computer suite or 'cows'
- **Continued professional development**

# Te Pahu School - a digitally interactive environment

## ***We currently have ...***

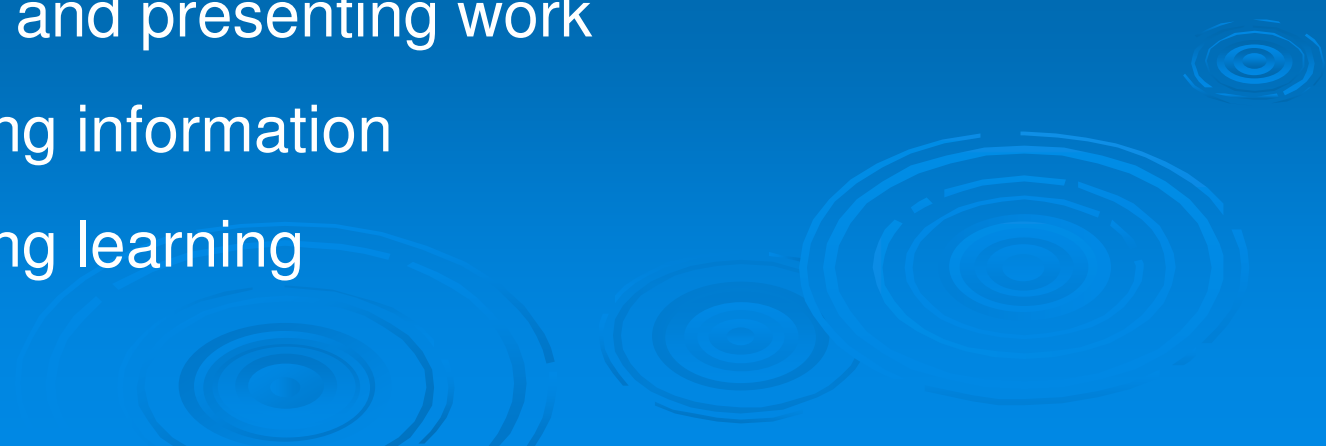
- Teacher laptops
- Computer suite (15 now max 20)
- Classroom computers x1 each
- Classroom laptops x1 each
- Various other computers ...
- Digital cameras in each classroom +pod (5)
- Digital video camera
- Data projectors in each classroom

# Building blocks to effective ICT at school.



**Te Pahu School - a digitally interactive environment**

# ICT's should be used for ...

- Attracting the learner
  - Interaction with the learner
  - Collaboration between learners
  - Enabling an authentic audience
  - Sharing and presenting work
  - Gathering information
  - Practising learning
- 

# How do ICT's become 'vital' in our classrooms?

Always on hand

Practice - familiarity

Ready to use ... push a button



# Te Pahu School - a digitally interactive environment

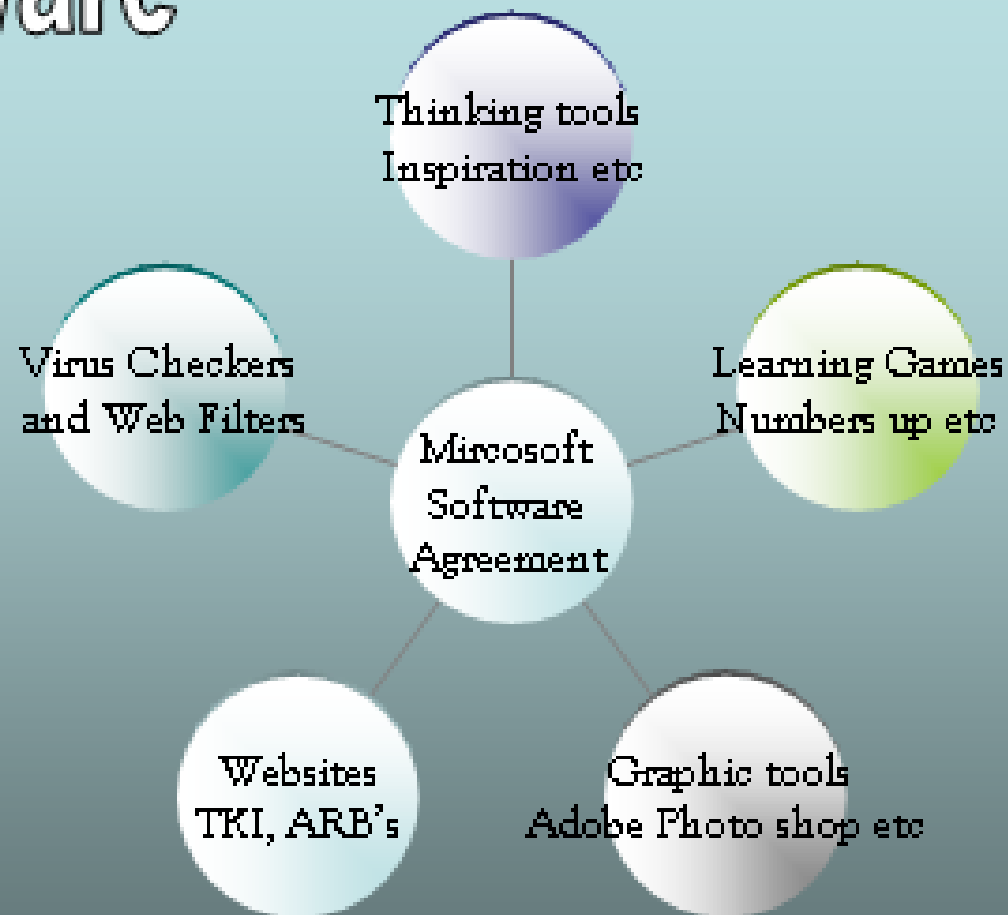
Therefore we need...

- The computer suite to teach skills
- Classroom computers to practice and use skills
- Cameras/projectors/internet to share what we have been learning/doing

***When we begin to use these tools effectively  
– they become a vital part of our  
classrooms***



# Software



# Funding Request

- To continue the ICT path we have begun the purchase of classroom computers should be next... 4/5 per classroom. (5x6 classrooms x \$330 each = \$9900)
- There is the need to purchase desks and chairs suitable to support these computers. (tables/chairs approx \$1000 per classroom)
- There will also be a rise in tech support needed with the extra computers on site as well as a need to relook at our Microsoft software agreement.
- - opportunity to put current laptops into Room 7 to enhance their digital programme
- The refurbishment of the computer suite also needs to be planned for over the next 2 years.

### IBM 8172 Desktop with 19" LCD



- Pentium 4 3.0GHz
- 512MB Ram
- 80GB Sata Hard Drive
- DVD Rom
- USB 2.0 Ports
- Onboard Network
- Onboard Audio
- Onboard Video
- Windows XP Pro Loaded
- 19" Philips LCD Monitor w/ Speakers

**\$330.00 + Gst**

Email  
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Add \$50 for 6 Month  
Extended Warranty

Quantity Discount applies.  
(Over 5 bundles)

## *Challenges I discovered in completing my sabbatical*

- Teaching principals are hard to contact ... they are very short of time
- Schools had similar comments which raised more questions rather than giving the answers
- School camps, swimming sports, illness and everything else teachers need to do.